UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

52	1	40	

7590

12/10/2008

HAMRE, SCHUMANN, MUELLER & LARSON P.C. P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402 EXAMINER
PATEL, ASHOK

ART UNIT PAPER NUMBER

2889

DATE MAILED: 12/10/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,658	08/02/2006	Hiroshi Yagi	10873.1916USWO	4480

TITLE OF INVENTION: FLUORESCENT LAMP.LUMINAIRE AND METHOD FOR MANUFACTURING FLUORESCENT LAMP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

ppropriate. All further ndicated unless correcte naintenance fee notifica		ng the Patent, advance on herwise in Block 1, by (a	rders and notification a) specifying a new c	of m orresp	naintenance fees w pondence address;	rill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
53148	7590 12/10	/2008		nave			of Mailing or Transn	niccion
HAMRE, SCHUMANN, MUELLER & LARSON P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402			P.C.	I her State addre trans	eby certify that this Postal Service wessed to the Mail mitted to the USP.	is Fee(state) is Fee(state) ith suf Stop ΓΟ (57	s) Transmittal is being ficient postage for first ISSUE FEE address (1) 273-2885, on the da	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/597,658	08/02/2006		Hiroshi Yagi			10	873.1916USWO	4480
		IP.LUMINAIRE AND M						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	DUE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/10/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	3				
PATEL,	ASHOK	2889	313-490000					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a registered attorney	a single firm (having as a member a new or agent) and the names of up to ent attorneys or agents. If no name is				
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The filed below, no assigned soletion of this form is NO	data will appear on t	he pa g an a	tent. If an assigne assignment.			ocument has been filed for
lease check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	on or other private gro	up entity Government
a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 					
_ ` .	tus (from status indicated as SMALL ENTITY statu	*	☐ b Applicant is no	a long	sor claiming SMAI	I ENT	ΓΙΤΥ status. See 37 CF	P 1 27(a)(2)
NOTE: The Issue Fee an	d Publication Fee (if requ		d from anyone other th	-	-			e assignee or other party in
Authorized Signature					Date			
Typed or printed name					-			
This collection of inform n application. Confiden ubmitting the completed nis form and/or suggesti sox 1450, Alexandria, V slexandria. Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but 7 irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR	on is required to obtain 1.14. This collection i depending upon the e Chief Information C COMPLETED FORM	n or re is esti indivi Office IS TO	etain a benefit by the mated to take 12 r idual case. Any co r, U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/597,658	08/02/2006	Hiroshi Yagi	10873.1916USWO	4480	
53148 7590 12/10/2008		EXAMINER			
HAMRE, SCHUMANN, MUELLER & LARSON P.C.			PATEL, ASHOK		
P.O. BOX 2902-09	-	ART UNIT	PAPER NUMBER		
MINNEAPOLIS, MN 55402		2889			
			DATE MAILED: 12/10/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 351 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 351 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	 10/597,658	YAGI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Ashok Patel	2889			
		I			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS. This application is	in this application. If not includ nunication will be mailed in due	led course. THIS		
1. This communication is responsive to <u>restriction response</u> re	eceived on 10/09/2008.				
2. The allowed claim(s) is/are <u>1-10</u> .					
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the:		or (f).			
 Certified copies of the priority documents have Certified copies of the priority documents have 		on No			
3. ☑ Copies of the certified copies of the priority do			ation from the		
International Bureau (PCT Rule 17.2(a)).	cuments have been receive	ed in this hational stage applica	ation from the		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the re	quirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	or in the Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗖 Notice of I	nformal Patent Application			
 Notice of References Cited (PTO-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),			
_ ,	Paper No	./Mail Date			
3. ☑ Information Disclosure Statements (PTO/SB/08), 7. ☑ Examiner's Amendment/Comment Paper No./Mail Date <u>08022006</u>					
4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material					
	9.	•			

Art Unit: 2889

1. Applicant's election of Group I, claims 1-10 in the reply filed on 10/09/2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claims 11-15 are withdrawn from consideration as being non-elected claims.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In Claims

Claims 11-15 are cancelled.

The Examiner cancels claims 11-15 by informal amendment, as being non-elected claims without traverse (see paragraph 1).

Applicant's response is not deemed necessary in response to this informal amendment.

3. The following is an examiner's statement of reasons for allowance: prior art of the record does not disclose applicant's claimed fluorescent lamp, or applicant's claimed illumination device including the fluorescent lamp, or applicant's claimed

Application/Control Number: 10/597,658 Page 3

Art Unit: 2889

method of manufacturing the fluorescent lamp, the lamp including:

a glass bulb provided with a phosphor film on its internal face, in which a rare gas and an amalgam pellet are enclosed,

wherein the amalgam pellet contains zinc, tin, and mercury, one or a plurality of the amalgam pellets are enclosed in the glass bulb, and each of the amalgam pellets has a weight of not more than 20 mg, and

the fluorescent lamp satisfies the relationship expressed as:

 $45x(1-A) \le x \le 55x(1-A)$,

 $75A \le y \le 85A$,

 $45-30A \le z \le 55-30A$, and

 $x+y+z \leq 100$

where A represents a value whose lower limit is determined as:

 $A \ge 0.3 - (S/25)$ and $A \ge 0.1$ when $0 < L2/D 1.5 \times 10^4$,

 $A \ge 0.4 - (S/25)$ and $A \ge 0.2$ when $1.5 \times 10^4 < L2fD \le 5 \times 10^4$, or

A \geq 0.5-(S/25) and A \geq 0.3 when $5x10^4$ < L2/D \leq 8.5x10 4 ,

where D represents an internal diameter of the glass bulb in millimeters,

Application/Control Number: 10/597,658

Art Unit: 2889

L represents a length of a discharge path in millimeters,

Page 4

S represents a surface area of the amalgam pellet in square millimeters,

x represents a content of zinc in percent by weight,

y represents a content of tin in percent by weight, and

z represents a content of mercury in percent by weight.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok Patel whose telephone number is 571-272-2456. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on 571-272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

Application/Control Number: 10/597,658 Page 5

Art Unit: 2889

access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ashok Patel/
Ashok Patel
Primary Examiner

Art Unit 2879